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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/788,496	02/21/2001	Hidemasa Yasuda	0879-0298P	6755
2292	590 04/10/2006		EXAM	INER
BIRCH STEV PO BOX 747	WART KOLASCH &	VILLECCO, JOHN M		
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
	·		2622	

DATE MAILED: 04/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/788,496	YASUDA, HIDEMASA			
	Office Action Summary	Examiner	Art Unit			
		John M. Villecco	2622			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
WHIC - External after - If NO - Failu Any (ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 17 Fe	ebruary 2006.				
2a)⊠	This action is FINAL . 2b) This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠	4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.					
-	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>4 and 10-12</u> is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>1-3 and 5-7</u> is/are rejected.					
7)⊠)⊠ Claim(s) <u>8 and 9</u> is/are objected to.					
8)□	Claim(s) are subject to restriction and/or	election requirement.				
Applicati	on Papers					
9) The specification is objected to by the Examiner.						
10)🛛	The drawing(s) filed on 24 August 2004 is/are:	a)⊠ accepted or b)⊡ objected t	o by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	nder 35 U.S.C. § 119					
	12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:					
۵/2	1.⊠ Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
		*	•			
Attachment	(s)	, d				
	e of References Cited (PTO-892)	4) Interview Summary ((PTO-413)			
2) D Notice	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Dai	te			
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	6) Other:	atent Application (PTO-152)			

Art Unit: 2622

DETAILED ACTION

Response to Arguments

- 1. Applicant has amended claims 1, 2, and 6 to recite "adapted to" language in an attempt to further clarify the claim language. In addition, applicant argues that based on case law the claims as presented are definite. In support of this statement applicant has cited <u>In re Venezia</u>, 189 USPQ 149 (CCPA 1976) which shows claims that include "adapted to" language are definite under 112, 2nd paragraph.
- 2. The examiner agrees with the findings in In re Venezia. In fact, the examiner has never made a rejection under 112, 2nd paragraph in any of the previous office actions that have been sent out. Claims 1, 2, and 6 have been rejected under 35 USC 102 (in the case of claims 1 and 2) or 35 USC 103 (in the case of claim 6). In terms of 35 USC 102 and 103, the applicant is directed towards section 2114 of the MPEP, which discusses the use of functional language in apparatus claims. As stated in this section, "While features of an apparatus may be recited either structurally or functionally, claims directed to an apparatus must be distinguished from the prior art in terms of structure rather than function". Therefore, the rejection from the previous action is valid. A reference need only to be capable of performing video signal correction without lowering a S/N ratio. Therefore, since the claimed structure and the structure taught by Lee are identical, it is inherent that the structure of Lee would also correct video signals without lowering a S/N ratio.
- 3. For the above stated reasons the rejections of claims 1, 2, and 6 from the previous office action will be repeated.

Art Unit: 2622

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. <u>Claims 1-3 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Lee</u> (U.S. Patent No. 5,546,134).
- 6. Regarding *claim 1*, Lee discloses an apparatus for correcting the brightness of an image signal. More specifically, Lee discloses an average picture level (APL) calculator (20) for determining the brightness of the image signal and a look-up table (30) for correcting the video signal according to the calculated brightness value. See column 4, line 65, to column 5, line 11. Additionally, Lee discloses that the correction of the video signal is done to correct signals picked up by cameras and displayed by a display. See column 1, lines 19-24. Since the limitation of correcting the video signals without lowering a S/N ratio appears to be a functional limitation, Lee needs only to be capable of performing video signal correction without lowering a S/N ratio. Therefore, since the claimed structure and the structure taught by Lee are identical, it is inherent that the structure of Lee would also correct video signals without lowering a S/N ratio.
- 7. As for *claim 2*, Lee discloses an apparatus for correcting the brightness of an image signal. More specifically, Lee discloses an A/D converter (10) which acts as the signal processing part, an average picture level (APL) calculator (20) for determining the brightness of

Art Unit: 2622

the image signal, and a look-up table (30) for determining a correction amount and correcting the video signal according to the brightness value. See column 4, line 65, to column 5, line 11. Additionally, Lee discloses that the correction of the video signal is done to correct signals picked up by cameras and displayed by a display. See column 1, lines 19-24. Since the limitation of correcting the video signals without lowering a S/N ratio appears to be a functional limitation, Lee needs only to be capable of performing video signal correction without lowering a S/N ratio. Therefore, since the claimed structure and the structure taught by Lee are identical, it is inherent that the structure of Lee would also correct video signals without lowering a S/N ratio.

- 8. With regard to *claim 3*, Lee discloses an A/D converter (10) for converting the signals into digital signals and a D/A converter (40) for converting the corrected signal to an analog signal. The video signal is corrected before being D/A converted.
- 9. Regarding *claim 5*, Lee discloses an embodiment in Figure 5 that does not includes a variable gain amplifier.

Claim Rejections - 35 USC § 103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 11. Claims 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshida et al. (U.S. Patent No. 2004/0165070) in view of Christoff et al. (U.S. Patent No. 6,518,998).

Application/Control Number: 09/788,496

Art Unit: 2622

12. Regarding *claim* 6, Yoshida discloses a camera (10) that includes a lens (12), a diaphragm (50), an image sensor (52), an image signal processing circuit that includes an analog processing circuit (54), an A/D converter (56), a digital signal processing circuit (58), a gamma correcting circuit, a YC signal generating circuit, and a D/A converter (78), a display (28) for displaying images output from the digital signal processing circuit (58), and a CPU. See paragraph 0053. The CPU (66) and control circuit (74) operate to control the diaphragm of the camera in response to the processed video signals. The CPU (66) serves as the display controlling circuit.

Yoshida, however, fails to explicitly disclose that the camera includes a microcomputer connected to an EEPROM for controlling the diaphragm, shutter speed, and brightness of the image signal. Christoff, on the other hand, discloses a camera that is capable of adjusting the brightness of an image signal by offsetting the image signal. More specifically, Christoff discloses a camera that includes an imager (108), a D/A converter (132), a video monitor (116), and signal processing circuitry (112) that includes an amplifier (120), an A/D converter (124), a DSP (126), and a controller (136). As disclosed in column 3, line 65 to column 4, line 7, a brightness of the incoming image signal is calculated and an image signal is corrected according to the brightness value. The image signal is then sent to the video monitor (116) after being corrected. The correction is performed by offsetting the brightness levels of the video signals by a correction value. The controller (136) controls the shutter speed of the imager (108). Based upon the calculated brightness value being below a threshold value, a correction value for the black level is obtained from the table. See Figure 3.

Art Unit: 2622

Christoff, however, fails to disclose that the tables are stored in an EEPROM. Official Notice is taken, however, that EEPROM's are well known in the art for storing data. One of ordinary skill in the art would have recognized that an EEPROM would provide an excellent way of accessing the data stored in the tables shown in Figure 3.

- 13. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshida et al. (U.S. Patent No. 2004/0165070) in view of Christoff et al. (U.S. Patent No. 6,518,998) and further in view of Eino (U.S. Patent No. 6,120,435).
- 14. Regarding *claim* 7, as mentioned above in the discussion of claim 6, both Yoshida and Christoff disclose the limitations of the parent claim. However, neither of the aforementioned reference discloses the use of a switch to select between a correction mode and a non-correction mode. Eino, on the other hand discloses a method of adjusting the brightness of an image, wherein a button (25A) is used to implement the brightening procedure. See Figure 3. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use a switch in order to implement the brightness correction so that a user may manually select the desired brightness of the image.

Allowable Subject Matter

- 15. Claims 8 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 16. The following is a statement of reasons for the indication of allowable subject matter:

Art Unit: 2622

Regarding *claim 8*, the primary reason for indication of allowable subject matter is that the prior art fails to teach or reasonably suggest a variable gain amplifier which is controlled by the microcomputer to provide an optimum gain value falling within an effective gain range provided by a data table within the EEPROM and which does not permit a lowering of the SN ratio.

17. Claims 4 and 10-12 are allowed.

18. The following is an examiner's statement of reasons for allowance:

Regarding claims 4 and 10-12, the primary reason for allowance is that the prior art fails to teach or reasonably suggest a gain controlling part that controls a gain of the variable gain amplifier according to the brightness level of the video signals, wherein the gain of the variable gain amplifier is controlled to an optimum gain value falling within an effective gain range and which does not permit a lowering of an SN ratio.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

19. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John M. Villecco whose telephone number is (571) 272-7319. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Ometz can be reached on (571) 272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John M. Villecco April 4, 2006

> DAVID OMETZ SUPERVISORY PATENT EXAMINER